

APPENDIX-(1)

Declaration of Dr. Friedrich Jonas Including comparative data of dispersions made with a PEDOT : PSS ratio of 1 : 20, at different d_{90} particle sizes.



PATENT APPLICATION Mo-6935 LeA 34,765

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION OF) GROUP NO.: 1712
FRIEDRICH	JONAS ET AL	
SERIAL NUMBER: 10/057,027		EXAMINER: DANIEL S. METZMAIER
FILED:	JANUARY 24, 2002	
TITLE:	ELECTROLUMINESCENT ARRANGEMENTS	

DECLARATION UNDER 37 C.F.R. §1.132

I, Dr. Friedrich Jonas, residing at Krugenofen 15Aachen, Germany, declare as follows:

- 1) that I have the following technical educations and experience:
 - a) I am a chemist having studied at the RWTH Aachen, Germany, from 1971 to 1980
 - b) I received the degree of PhD at the RWTH Aachen in the year of 1980.
- c) I am employed by Bayer AG in the central research department since May 1980 and by H.C.Starck since 2001 in particular with regard to conductive polymers.
- 2) that the following tests were carried out under my immediate supervision and control:

From a Baytron® P AI 4083 PEDT solution and a polystyrene sulphonate solution a PEDT/PSS dispersion was prepared in such a way that the PEDT/PSS ratio of the resulting dispersion was 1:20. The particle size distribution of the dispersions was, in each case, measured before and after homogenization, by means of an ultracentrifuge method in accordance with that described at page 4, lines 4-6 of the specification

Coatings were subsequently produced on glass plates by spin coating followed by drying at 120°C. The resitivity of the resulting layers was determined under reduced pressure at a pressure of about 10⁻⁶ mbar.

The results so obtained are summarized in the following table.

Homogenization	None	2 times at 400 bar	4 times at 400 bar
90 wt.% of the particles in the dispersion in the swollen state < x nm	55	53.8	34.3
Resisitivity [Ωcm]	17,400	76,000	130,000

I further declare that all statements made herein are of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States code and that such willful false statements may jeopardize the validity of pending Application Serial Number 10/057,027 or any patent issuing thereon.

Signed at <u>feverlesen</u> this <u>11th</u> day of <u>January</u>, 2006.

Inventor name